CIVIL PRO
AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017
4, 7TH MAIN MALLESWARAM, BANGALORE -3

QC ABSTRACT

NAME OF WORK: Additional Developmental works to Vidyaranyapura Indoor Stadium New Ward No.14

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials			1	1
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Block(400*200*200)	BLOCK DENSITY	One Test		1	1
		WATER ABSORPTION	One Test		1	1
		DIMENSION ANALYSIS	One Test		1	1
		COMPRESSIVE STRENGTH	One Test		1	1
7	PCC(M15)	Compressive Strength(7days and 28days)	3 sets /16-30 cum	18.34	6	6
8	RCC(M20)	Compressive Strength(7days and 28days)	3 sets /16-30 cum	18.38	6	6
9	RCC(M20)	Compressive Strength(7days and 28days)	2 sets /6-15 cum	8.4	4	4
10	RCC(M25)	Compressive Strength(7days and 28days)	5 Sets	28.54	10	10

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Yelahanka Zone
BBMP Bangalore - 92

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11	Mortar Sand	Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
		Compacted Bulk Density	One Test		1	1
		Loose Bulk Density	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
12	Plaster Sand	Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
13	Paver Block	Compressive Strength	One Test		1	1
		Water Absorption	One Test		1	1
14	Chain Link Fencing	Average Thickness	One Test		1	1
		Dia of line wire	One Test		1	1
		Mesh size	One Test		1	1
		Nominal dia of mesh wire	One Test		1	1
		Bend Test	One Test		1	1
15	Structural Steel Truss (SHS - 150X150X6mm)	Weight/Meter	One Test		1	1
		Thickness	One Test		1	1
		Yeild Stress	One Test		1	1
		Tensile Strength	One Test		1	1
		Elongation Percentage	One Test		1	1
		Bend Test	One Test		1	1
16	Structural Steel Truss (RHS - 240X120X4mm)	Weight/Meter	One Test		1	1
		Thickness	One Test		1	1
		Yeild Stress	One Test		1	1
		Tensile Strength	One Test		1	1
		Elongation Percentage	One Test		1	1
		Bend Test	One Test		1	1
17	Structural Steel (Purlin SHS 132X132X6mm)	Weight/Meter	One Test		1	1
		Thickness	One Test		1	1
		Yeild Stress	One Test		1	1
		Tensile Strength	One Test		1	1
		Elongation Percentage	One Test		1	1
		Bend Test	One Test		1	1
18	Structural Steel Truss (RHS - 300X200X8mm)	Weight/Meter	One Test		1	1
		Thickness	One Test		1	1
		Yeild Stress	One Test		1	1
		Tensile Strength	One Test		1	1
		Elongation Percentage	One Test		1	1
		Bend Test	One Test		1	1
19	Structural Steel (Purlin SHS 150X150X6mm)	Weight/Meter	One Test		1	1
		Thickness	One Test		1	1
		Yeild Stress	One Test		1	1
		Tensile Strength	One Test		1	1
		Elongation Percentage	One Test		1	1
		Bend Test	One Test		1	1
20	Structural Steel Base Plate (230X230X16mm)	Thickness	One Test		1	1
		Yeild Stress	One Test		1	1
		Tensile Strength	One Test		1	1
		Elongation Percentage	One Test		1	1
		Bend Test	One Test		1	1

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Zone

21	Structural Steel Base plate (150X150X16mm)	Thickness	One Test		1	1
		Yeild Stress	One Test		1	1
		Tensile Strength	One Test		1	1
		Elongation Percentage	One Test		1	1
		Bend Test	One Test		1	1
22	Structural Steel Truss (SHS 72X72X4.8mm)	Thickness	One Test		1	1
		Yeild Stress	One Test		1	1
		Tensile Strength	One Test		1	1
		Elongation Percentage	One Test		1	1
		Bend Test	One Test		1	1
23	Structural Steel Truss (RHS - 40X20X3mm)	Thickness	One Test		1	1
		Yeild Stress	One Test		1	1
		Tensile Strength	One Test		1	1
		Elongation Percentage	One Test		1	1
		Bend Test	One Test		1	1
24	Structural Steel Truss (SHS - 38X38X4mm)	Thickness	One Test		1	1
		Yeild Stress	One Test		1	1
		Tensile Strength	One Test		1	1
		Elongation Percentage	One Test		1	1
		Bend Test	One Test		1	1
25	Structural Steel ISA (50X50Xomm)	Thickness	One Test		1	1
		Yeild Stress	One Test		1	1
		Tensile Strength	One Test		1	1
		Elongation Percentage	One Test		1	1
		Bend Test	One Test		1	1
26	Structural Steel ISA (65Xo8X8mm)	Thickness	One Test		1	1
		Yeild Stress	One Test		1	1
		Tensile Strength	One Test		1	1
		Elongation Percentage	One Test		1	1
		Bend Test	One Test		1	1
27	Structural Steel ISA (35X35Xomm)	Thickness	One Test		1	1
		Yeild Stress	One Test		1	1
		Tensile Strength	One Test		1	1
		Elongation Percentage	One Test		1	1
		Bend Test	One Test		1	1
28	Structural Steel ISA (30X30X5mm)	Thickness	One Test		1	1
		Yeild Stress	One Test		1	1
		Tensile Strength	One Test		1	1
		Elongation Percentage	One Test		1	1
		Bend Test	One Test		1	1

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Date: 03-04-23

Lab ID	:	**CP-2023-12-20-10**
Project Name	:	Additional Developmental works to Vidyaranyapura Indoor Stadium New Ward No.14
Agency	:	Sri. Abbu Sambasiva Reddy, #1-B3, Srce Arcade Layout, 4th Block, D B Sandra, Vidyaranyapura, Bangalore-97
Customer's Reference	:	EE(Project)/Ynk Zone/WO/087/2022-23
Date of Receipt	:	30-03-23
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 269:2015 Ordinary Portland cement Specification , IS 4031 (Part 4,5):1988 IS 4031 Part 1 (RA 2021) DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4 4 IS 4031 Part 2, (RA 2018) Determination of Fineness by Blaine Air Permeability IS 4031 Part 3, (RA 2019) Determination of Soundness, Clause 5, Clause 6 IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, (RA 2019) Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11, (RA 2019)DETERMINATION OF DENSITY , Clause 6
Date of test	:	31-03-23
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 269:2015
1	Fineness by dry sieving (%)	1.75	–
2	Finess by Air permeablity method (m^2/kg,Min)	281.4	225m^2/kg, Min
3	Density (gm/cc)	3.14	–
4	Standard Consistency (%)	29.5%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	285 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

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Quality Manager

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Date: 28-04-23

Lab ID	:	CP-2023-12-20-10
Project Name	:	Additional Developmental works to Vidyaranyapura Indoor Stadium New Ward
Agency	:	Sri. Abbu Sambasiva Reddy, #1-B3, Sree Arcade Layout, 4th Block, D B Sandra, No.14 Vidyaranyapura, Bangalore-97
Customer's Reference	:	EE(Project)/Ynk Zone/WO/087/2022-23
Date of Receipt	:	30-03-23
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 269:2015 Ordinary Portland cement Specification , IS 4031 (Part 4,5):1988 , IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, (RA 2019) Determination of Compressive Strength, Clause 6
Date of test	:	31-03-23
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength			
Sl.No.	Physical properties	Results	Requirement as per IS 269:2015
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

* The results obtained are satisfactory as per standard requirements.

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Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID **Date: 03-04-23**

Project Name	:	**CP-2023-12-20-10**
Agency	:	Additional Developmental works to Vidyaranyapura Indoor Stadium New Ward No.14
	:	Sri. Abbu Sambasiva Reddy, #1-B3, Sree Arcade Layout, 4th Block, D B Sandra, Vidyaranyapura, Bangalore-97
Customer's Reference	:	EE(Project)/Ynk Zone/WO/087/2022-23
Date of Receipt	:	30-03-23
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates)
		IS: 2386 :1963(Part - 1,3,4) RA2021
		IS 2386 Part 1: Particle Size and Shape
		IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
		IS 2386 Part 4: Mechanical Properties
Date of test	:	30-03-23

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	214	214	1.4	98.6	90-100
3	20 mm	7254	7468	49.8	50.2	30-70
4	10 mm	4442	11910	79.4	20.6	10-35
5	4.75 mm	2685	14595	97.3	2.7	0-5
6	Pan	405	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2023-12-20-10** **Date: 03-04-23**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.6	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.3	
3	Specific Gravity	2.64	–
4	Bulk Density(Loose) (Kg/l)	1.49	–
5	Bulk Density(Compacted) (Kg/l)	1.52	–
6	Water Absorption(%)	0.17	–

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT ON COARSE AGGREGATES

Date: 01-04-23

Lab ID	:	**CP-2023-12-20-10**
Project Name	:	Additional Developmental works to Vidyaranyapura Indoor Stadium New Ward No.14
Agency	:	Sri. Abbu Sambasiva Reddy, #1-B3, Sree Arcade Layout, 4th Block, D B Sandra, Vidyaranyapura, Bangalore-97
Customer Reference	:	EE(Project)/Ynk Zone/WO/087/2022-23
Date of Receipt	:	30-03-23
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	30-03-23

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	240	240	4.8	95.2	90-100
3	10 mm	2567	2807	56.1	43.9	25-55
4	4.75 mm	2030	4837	96.7	3.3	0-10
5	Pan	163	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2023-12-20-10

Date: 01-04-23

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	9.8	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.3	
3	Specific Gravity	2.65	–
4	Bulk Density(Loose) (Kg/l)	1.5	–
5	Bulk Density(Compacted) (Kg/l)	1.52	–
6	Water Absorption(%)	0.23	–
7	Aggregate crushing Value(%)	22.7	Max 30% for Aggregates to be used in concrete for wearing Surface. In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	24.6	30% for Aggregates to be used in concrete for wearing Surface. 45% for Aggregates to be used in concrete other than for wearing Surface.

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF FINE AGGREGATE

Date: 01-04-23

Lab ID : CP-2023-12-20-10

Project Name : Additional Developmental works to Vidyaranyapura Indoor Stadium New Ward No.14

Agency : Sri. Abbu Sambasiva Reddy, #1-B3, Sree Arcade Layout, 4th Block, D B Sandra, Vidyaranyapura, Bangalore-97

Customer's Reference : EE(Project)/Ynk Zone/WO/087/2022-23

Date of Receipt : 30-03-23

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 30-03-23

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	78	78	7.8	92.2	90-100	90-100	90-100	95-100
3	2.36 mm	65	143	14.3	85.7	60-95	75-100	85-100	95-100
4	1.18 mm	244	387	38.7	61.3	30-70	55-90	75-100	90-100
5	600 micron	215	602	60.2	39.8	15-34	35-59	60-79	80-100
6	300 micron	178	780	78.0	22.0	5-20	8-30	12-40	15-50
7	150 micron	141	921	92.1	7.9	0-10	0-10	0-10	0-15
8	Pan	79	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2023-12-20-10

Date: 01-04-23

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	7.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

* The results obtained are satisfactory as per standard requirements.

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BBMP, Bangalore - 92

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TEST RESULTS OF STEEL

Date: 31-03-23

Lab ID	:	**CP-2023-12-20-10**
Project Name	:	Additional Developmental works to Vidyaranyapura Indoor Stadium New Ward No.14
Agency	:	Sri. Abbu Sambasiva Reddy, #1-B3, Sree Arcade Layout, 4th Block, D B Sandra, Vidyaranyapura, Bangalore-97
Customer's Reference	:	EE(Project)/Ynk Zone/WO/087/2022-23
Date of Receipt	:	30-03-23
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2019.
Date of test:	:	30-03-23

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500D	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500D	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500D	12	0.888	544	668	20.0%	Satisfactory	Satisfactory
4	Sunvik	Fe500D	16	1.581	572	674	19.0%	Satisfactory	Satisfactory
5	Sunvik	Fe500D	20	2.476	584	693	19.0%	Satisfactory	Satisfactory
6	Sunvik	Fe500D	25	3.472	597	712	18.0%	Satisfactory	Satisfactory

* The results obtained are satisfactory as per standard requirements.

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Spectro Chemical Analysis, Physical, Non Destructive All Type of Metal Testing

Lab ID : CP-2023-12-20-10 Date: 01-04-23

Project Name : Additional Developmental works to Vidyaranyapura Indoor Stadium New Ward No.14

Agency : Sri. Abbu Sambasiva Reddy, #1-B3, Sree Arcade Layout, 4th Block, D B Sandra, Vidyaranyapura, Bangalore-97

Customer's Reference : EE(Project)/Ynk Zone/WO/087/2022-23

Date of Receipt : 30-03-23

Sample Type / Grade : Sunvik

Date of test : 30-03-23

CHEMICAL ANALYSIS

Sl. No.	Chemical Contents	8mm	10mm	12mm	16mm	20mm	25mm	Max. Limits as per IS:1786-2008, Gr. Fe 500D
1	Carbon (C) %	0.139	0.146	0.143	0.178	0.182	0.173	0.250 Max
2	Phosphor (P) %	0.030	0.028	0.032	0.026	0.031	0.024	0.040 Max
3	Sulphur (S) %	0.027	0.036	0.030	0.036	0.029	0.033	0.040 Max
4	Sulphur & Phosphorus %	0.062	0.050	0.068	0.063	0.059	0.061	0.075 Max

Note : The above material confirms to ASI S S 304 with respect to elements analysed

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 05/07/2023

Lab ID : **CP-2023-12-20-10**

Project Name : Additional Developmental works to Vidyaranyapura Indoor Stadium New Ward No.14

Agency : Sri. Abbu Sambasiva Reddy, #1-B3, Sree Arcade Layout, 4th Block, D B Sandra, Vidyaranyapura, Bangalore-97

Customer's Reference : EE(Project)/Ynk Zone/WO/087/2022-23

Date of Receipt : 30-06-23

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 05/07/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	28/06/2023	05/07/2023	150.18 X 150.94 X 150.38	22668	8.790	230.1	10.1	10.2
2	PCC	M15	28/06/2023	05/07/2023	150.71 X 150.76 X 150.07	22720	8.233	229.1	10.1	
3	PCC	M15	28/06/2023	05/07/2023	150.43 X 150.56 X 150.90	22649	8.608	235.5	10.4	

* The results obtained are satisfactory as per standard requirements.

Asst. Executive Engineer
Project Division
Yelahanka Zone
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R KARTHIK RECHAN
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 26/07/2023

Lab ID	:	**CP-2023-12-20-10**
Project Name	:	Additional Developmental works to Vidyaranyapura Indoor Stadium New Ward No.14
Agency	:	Sri. Abbu Sambasiva Reddy, #1-B3, Sree Arcade Layout, 4th Block, D B Sandra, Vidyaranyapura, Bangalore-97
Customer's Reference	:	EE(Project)/Ynk Zone/WO/087/2022-23
Date of Receipt	:	30-06-23
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	26/07/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	28/06/2023	26/07/2023	150.99 X 150.63 X 150.12	22744	8.528	404.3	17.8	17.8
2	PCC	M15	28/06/2023	26/07/2023	150.79 X 150.32 X 150.17	22666	8.799	406.7	17.9	
3	PCC	M15	28/06/2023	26/07/2023	150.59 X 150.94 X 150.93	22729	8.998	399.2	17.6	

* The results obtained are satisfactory as per standard requirements.

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Format No: CP/TE/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 05/07/2023

Lab ID	:	CP-2023-12-20-10
Project Name	:	Additional Developmental works to Vidyaranyapura Indoor Stadium New Ward No.14
Agency	:	Sri. Abbu Sambasiva Reddy, #1-B3, Sree Arcade Layout, 4th Block, D B Sandra, Vidyaranyapura, Bangalore-97
Customer's Reference	:	EE(Project)/Ynk Zone/WO/087/2022-23
Date of Receipt	:	30-06-23
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	05/07/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	28/06/2023	05/07/2023	150.48 X 150.10 X 150.03	22586	8.230	240.6	10.7	10.6
2	PCC	M15	28/06/2023	05/07/2023	150.81 X 150.66 X 150.92	22721	8.347	230.0	10.1	
3	PCC	M15	28/06/2023	05/07/2023	150.68 X 150.46 X 150.51	22671	8.840	246.6	10.9	

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Asst. Executive Engineer
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 26/07/2023

Lab ID	:	**CP-2023-12-20-10**
Project Name	:	Additional Developmental works to Vidyaranyapura Indoor Stadium New Ward No.14
Agency	:	Sri. Abbu Sambasiva Reddy, #1-B3, Sree Arcade Layout, 4th Block, D B Sandra, Vidyaranyapura, Bangalore-97
Customer's Reference	:	EE(Project)/Ynk Zone/WO/087/2022-23
Date of Receipt	:	30-06-23
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	26/07/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	28/06/2023	26/07/2023	150.64 X 150.15 X 150.99	22619	8.130	386.0	17.1	17.3
2	PCC	M15	28/06/2023	26/07/2023	150.71 X 150.79 X 150.39	22725	8.835	391.2	17.2	
3	PCC	M15	28/06/2023	26/07/2023	150.91 X 150.08 X 150.30	22648	8.801	398.7	17.6	

* The results obtained are satisfactory as per standard requirements.

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 05/07/2023

Lab ID : **CP-2023-12-20-10**

Project Name : Additional Developmental works to Vidyaranyapura Indoor Stadium New Ward No.14

Agency : Sri. Abbu Sambasiva Reddy, #1-B3, Sree Arcade Layout, 4th Block, D B Sandra, Vidyaranyapura, Bangalore-97

Customer's Reference : EE(Project)/Ynk Zone/WO/087/2022-23

Date of Receipt : 30-06-23

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 05/07/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	28/06/2023	05/07/2023	150.81 X 150.82 X 150.24	22746	8.419	246.8	10.9	10.5
2	PCC	M15	28/06/2023	05/07/2023	150.82 X 150.16 X 150.84	22648	8.724	239.7	10.6	
3	PCC	M15	28/06/2023	05/07/2023	150.47 X 150.91 X 150.06	22707	8.310	231.6	10.2	

The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 26/07/2023

Lab ID : **CP-2023-12-20-10**

Project Name : Additional Developmental works to Vidyaranyapura Indoor Stadium New Ward No.14

Agency : Sri. Abbu Sambasiva Reddy, #1-B3, Sree Arcade Layout, 4th Block, D B Sandra, Vidyaranyapura, Bangalore-97

Customer's Reference : EE(Project)/Ynk Zone/WO/087/2022-23

Date of Receipt : 30-06-23

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 26/07/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	28/06/2023	26/07/2023	150.73 X 150.34 X 150.36	22660	8.308	400.8	17.7	17.6
2	PCC	M15	28/06/2023	26/07/2023	150.17 X 150.70 X 150.10	22630	8.361	394.5	17.4	
3	PCC	M15	28/06/2023	26/07/2023	150.54 X 150.40 X 150.60	22641	8.613	399.9	17.7	

* The results obtained are satisfactory as per standard requirements.

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 09/05/2023

Lab ID : CP-2023-12-20-10
Project Name : Additional Developmental works to Vidyaranyapura Indoor Stadium New Ward No.14
Agency : Sri. Abbu Sambasiva Reddy, #1-B3, Sree Arcade Layout, 4th Block, D B Sandra, Vidyaranyapura, Bangalore-97
Customer's Reference : EE(Project)/Ynk Zone/WO/087/2022-23
Date of Receipt : 04-05-23
Customer ID : Plinth Beam Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 7 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test : 09/05/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Plinth Beam Concrete	M20	02/05/2023	09/05/2023	150.57 X 150.46 X 150.76	22654	8.449	322.7	14.2	14.5
2	Plinth Beam Concrete	M20	02/05/2023	09/05/2023	150.16 X 150.56 X 150.77	22607	8.177	329.3	14.6	
3	Plinth Beam Concrete	M20	02/05/2023	09/05/2023	150.73 X 150.50 X 150.83	22685	8.549	332.8	14.7	

* The results obtained are satisfactory as per standard requirements.

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 30/05/2023

Lab ID : **CP-2023-12-20-10**

Project Name : Additional Developmental works to Vidyaranyapura Indoor Stadium New Ward No.14

Agency : Sri. Abbu Sambasiva Reddy, #1-B3, Sree Arcade Layout, 4th Block, D B Sandra, Vidyaranyapura, Bangalore-97

Customer's Reference : EE(Project)/Ynk Zone/WO/087/2022-23

Date of Receipt : 04-05-23

Customer ID : Plinth Beam Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/05/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Plinth Beam Concrete	M20	02/05/2023	30/05/2023	150.22 X 150.65 X 150.92	22631	8.693	522.9	23.1	23.5
2	Plinth Beam Concrete	M20	02/05/2023	30/05/2023	150.32 X 150.52 X 150.54	22626	8.348	529.9	23.4	
3	Plinth Beam Concrete	M20	02/05/2023	30/05/2023	150.72 X 150.64 X 150.82	22704	8.713	542.3	23.9	

* The results obtained are satisfactory as per standard requirements.

Asst. Executive Engineer
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Yelahanka Zone
BBMP, Bangalore - 92

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 09/05/2023

Lab ID : **CP-2023-12-20-10**

Project Name : Additional Developmental works to Vidyaranyapura Indoor Stadium New Ward No.14

Agency : Sri. Abbu Sambasiva Reddy, #1-B3, Sree Arcade Layout, 4th Block, D B Sandra, Vidyaranyapura, Bangalore-97

Customer's Reference : EE(Project)/Ynk Zone/WO/087/2022-23

Date of Receipt : 04-05-23

Customer ID : Plinth Beam Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/05/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Plinth Beam Concrete	M20	02/05/2023	09/05/2023	150.28 X 150.61 X 150.49	22633	8.325	327.5	14.5	14.6
2	Plinth Beam Concrete	M20	02/05/2023	09/05/2023	150.46 X 150.89 X 150.38	22703	8.290	338.7	14.9	
3	Plinth Beam Concrete	M20	02/05/2023	09/05/2023	150.83 X 150.02 X 150.32	22628	8.834	328.3	14.5	

* The results obtained are satisfactory as per standard requirements.

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2023-12-20-10** **Date: 30/05/2023**

Project Name : Additional Developmental works to Vidyaranyapura Indoor Stadium New Ward No.14

Agency : Sri. Abbu Sambasiva Reddy, #1-B3, Sree Arcade Layout, 4th Block, D B Sandra, Vidyaranyapura, Bangalore-97

Customer's Reference : EE(Project)/Ynk Zone/WO/087/2022-23

Date of Receipt : 04-05-23

Customer ID : Plinth Beam Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/05/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Plinth Beam Concrete	M20	02/05/2023	30/05/2023	150.22 X 150.22 X 150.76	22566	8.560	538.7	23.9	23.6
2	Plinth Beam Concrete	M20	02/05/2023	30/05/2023	150.21 X 150.03 X 150.34	22535	8.475	537.4	23.8	
3	Plinth Beam Concrete	M20	02/05/2023	30/05/2023	150.48 X 150.40 X 150.08	22632	8.484	521.6	23.0	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 09/05/2023

Lab ID	:	**CP-2023-12-20-10**
Project Name	:	Additional Developmental works to Vidyaranyapura Indoor Stadium New Ward No.14
Agency	:	Sri. Abbu Sambasiva Reddy, #1-B3, Sree Arcade Layout, 4th Block, D B Sandra, Vidyaranyapura, Bangalore-97
Customer's Reference	:	EE(Project)/Ynk Zone/WO/087/2022-23
Date of Receipt	:	04-05-23
Customer ID	:	Plinth Beam Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	09/05/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Plinth Beam Concrete	M20	02/05/2023	09/05/2023	150.71 X 150.26 X 150.83	22645	8.745	332.9	14.7	14.6
2	Plinth Beam Concrete	M20	02/05/2023	09/05/2023	150.31 X 150.97 X 150.51	22693	8.379	336.4	14.8	
3	Plinth Beam Concrete	M20	02/05/2023	09/05/2023	150.04 X 150.29 X 150.58	22549	8.623	324.7	14.4	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2023-12-20-10** **Date: 30/05/2023**

Project Name : Additional Developmental works to Vidyaranyapura Indoor Stadium New Ward No.14

Agency : Sri. Abbu Sambasiva Reddy, #1-B3, Sree Arcade Layout, 4th Block, D B Sandra, Vidyaranyapura, Bangalore-97

Customer's Reference : EE(Project)/Ynk Zone/WO/087/2022-23

Date of Receipt : 04-05-23

Customer ID : Plinth Beam Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/05/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Plinth Beam Concrete	M20	02/05/2023	30/05/2023	150.88 X 150.10 X 150.67	22647	8.874	538.2	23.8	23.6
2	Plinth Beam Concrete	M20	02/05/2023	30/05/2023	150.83 X 150.13 X 150.50	22645	8.505	529.8	23.4	
3	Plinth Beam Concrete	M20	02/05/2023	30/05/2023	150.92 X 150.36 X 150.96	22692	8.614	533.3	23.5	

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2023-12-20-10** **Date: 24/04/2023**

Project Name : Additional Developmental works to Vidyaranyapura Indoor Stadium New Ward No.14

Agency : Sri. Abbu Sambasiva Reddy, #1-B3, Sree Arcade Layout, 4th Block, D B Sandra, Vidyaranyapura, Bangalore-97

Customer's Reference : EE(Project)/Ynk Zone/WO/087/2022-23

Date of Receipt : 19-04-23

Customer ID : Pole Footing Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 24/04/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Pole Footing Concrete	M25	17/04/2023	24/04/2023	150.90 X 150.69 X 150.45	22739	8.204	416.3	18.3	18.2
2	Pole Footing Concrete	M25	17/04/2023	24/04/2023	150.15 X 150.01 X 150.65	22524	8.112	409.3	18.2	
3	Pole Footing Concrete	M25	17/04/2023	24/04/2023	150.53 X 150.45 X 150.49	22647	8.803	411.1	18.2	

* The results obtained are satisfactory as per standard requirements.

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R KARTHIK RECHAN
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****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2023-12-20-10** **Date: 15/05/2023**

Project Name : Additional Developmental works to Vidyaranyapura Indoor Stadium New Ward No.14

Agency : Sri. Abbu Sambasiva Reddy, #1-B3, Sree Arcade Layout, 4th Block, D B Sandra, Vidyaranyapura, Bangalore-97

Customer's Reference : EE(Project)/Ynk Zone/WO/087/2022-23

Date of Receipt : 19-04-23

Customer ID : Pole Footing Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 15/05/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Pole Footing Concrete	M25	17/04/2023	15/05/2023	150.50 X 150.93 X 150.50	22715	8.722	637.9	28.1	28.5
2	Pole Footing Concrete	M25	17/04/2023	15/05/2023	150.25 X 150.93 X 150.57	22677	8.619	649.0	28.6	
3	Pole Footing Concrete	M25	17/04/2023	15/05/2023	150.37 X 150.22 X 150.22	22588	8.579	652.0	28.9	

* The results obtained are satisfactory as per standard requirements.

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2023-12-20-10** **Date: 24/04/2023**

Project Name : Additional Developmental works to Vidyaranyapura Indoor Stadium New Ward No.14

Agency : Sri. Abbu Sambasiva Reddy, #1-B3, Sree Arcade Layout, 4th Block, D B Sandra, Vidyaranyapura, Bangalore-97

Customer's Reference : EE(Project)/Ynk Zone/WO/087/2022-23

Date of Receipt : 19-04-23

Customer ID : Column Concrete upto GL

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 24/04/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Column Concrete upto GL	M25	17/04/2023	24/04/2023	150.74 X 150.04 X 150.80	22618	8.246	410.1	18.1	18.1
2	Column Concrete upto GL	M25	17/04/2023	24/04/2023	150.87 X 150.15 X 150.35	22653	8.569	417.8	18.4	
3	Column Concrete upto GL	M25	17/04/2023	24/04/2023	150.68 X 150.35 X 150.34	22655	8.533	404.9	17.9	

* The results obtained are satisfactory as per standard requirements.

Asst. Executive Engineer
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BBMP, Bangalore - 92

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2023-12-20-10** **Date: 15/05/2023**

Project Name : Additional Developmental works to Vidyaranyapura Indoor Stadium New Ward No.14

Agency : Sri. Abbu Sambasiva Reddy, #1-B3, Sree Arcade Layout, 4th Block, D B Sandra, Vidyaranyapura, Bangalore-97

Customer's Reference : EE(Project)/Ynk Zone/WO/087/2022-23

Date of Receipt : 19-04-23

Customer ID : Column Concrete upto GL

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 15/05/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Column Concrete upto GL	M25	17/04/2023	15/05/2023	150.42 X 150.70 X 150.47	22668	8.165	646.9	28.5	28.5
2	Column Concrete upto GL	M25	17/04/2023	15/05/2023	150.57 X 150.84 X 150.78	22712	8.971	640.4	28.2	
3	Column Concrete upto GL	M25	17/04/2023	15/05/2023	150.13 X 150.55 X 150.40	22603	8.319	651.0	28.8	

* The results obtained are satisfactory as per standard requirements.

Asst. Executive Engineer
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2023-12-20-10 **Date: 24/05/2023**

Project Name : Additional Developmental works to Vidyaranyapura Indoor Stadium New Ward No.14

Agency : Sri. Abbu Sambasiva Reddy, #1-B3, Sree Arcade Layout, 4th Block, D B Sandra, Vidyaranyapura, Bangalore-97

Customer's Reference : EE(Project)/Ynk Zone/WO/087/2022-23

Date of Receipt : 19-05-23

Customer ID : Column Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 24/05/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Column Concrete	M25	17/05/2023	24/05/2023	150.06 X 150.52 X 150.22	22587	8.947	406.8	18.0	17.9
2	Column Concrete	M25	17/05/2023	24/05/2023	150.77 X 150.92 X 150.70	22753	8.387	404.4	17.8	
3	Column Concrete	M25	17/05/2023	24/05/2023	150.73 X 150.66 X 150.52	22709	8.400	405.5	17.9	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2023-12-20-10 **Date: 14/06/2023**

Project Name : Additional Developmental works to Vidyaranyapura Indoor Stadium New Ward No.14

Agency : Sri. Abbu Sambasiva Reddy, #1-B3, Sree Arcade Layout, 4th Block, D B Sandra, Vidyaranyapura, Bangalore-97

Customer's Reference : EE(Project)/Ynk Zone/WO/087/2022-23

Date of Receipt : 19-05-23

Customer ID : Column Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 14/06/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Column Concrete	M25	17/05/2023	14/06/2023	150.80 X 150.84 X 150.60	22746	8.468	656.4	28.9	28.6
2	Column Concrete	M25	17/05/2023	14/06/2023	151.00 X 150.44 X 150.83	22716	8.911	644.1	28.4	
3	Column Concrete	M25	17/05/2023	14/06/2023	150.69 X 150.35 X 150.16	22656	8.136	644.7	28.5	

* The results obtained are satisfactory as per standard requirements.

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2023-12-20-10 **Date: 14/06/2023**

Project Name : Additional Developmental works to Vidyaranyapura Indoor Stadium New Ward No.14

Agency : Sri. Abbu Sambasiva Reddy, #1-B3, Sree Arcade Layout, 4th Block, D B Sandra, Vidyaranyapura, Bangalore-97

Customer's Reference : EE(Project)/Ynk Zone/WO/087/2022-23

Date of Receipt : 09-06-23

Customer ID : FF Lintel Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 14/06/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	FF Lintel Concrete	M25	07/06/2023	14/06/2023	150.88 X 150.88 X 150.04	22764	8.132	410.9	18.1	17.8
2	FF Lintel Concrete	M25	07/06/2023	14/06/2023	150.83 X 150.57 X 150.06	22709	8.682	397.6	17.5	
3	FF Lintel Concrete	M25	07/06/2023	14/06/2023	150.34 X 150.77 X 150.72	22668	8.446	403.2	17.8	

* The results obtained are satisfactory as per standard requirements.

Asst. Executive Engineer
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2023-12-20-10

Date: 05/07/2023

Project Name : Additional Developmental works to Vidyaranyapura Indoor Stadium New Ward No.14

Agency : Sri. Abbu Sambasiva Reddy, #1-B3, Sree Arcade Layout, 4th Block, D B Sandra, Vidyaranyapura, Bangalore-97

Customer's Reference : EE(Project)/Ynk Zone/WO/087/2022-23

Date of Receipt : 09-06-23

Customer ID : FF Lintel Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 05/07/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	FF Lintel Concrete	M25	07/06/2023	05/07/2023	150.06 X 150.62 X 150.47	22601	8.351	649.7	28.7	28.6
2	FF Lintel Concrete	M25	07/06/2023	05/07/2023	150.69 X 150.72 X 150.38	22713	8.396	646.1	28.4	
3	FF Lintel Concrete	M25	07/06/2023	05/07/2023	150.24 X 150.81 X 150.26	22658	8.487	647.9	28.6	

* The results obtained are satisfactory as per standard requirements.

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2023-12-20-10** **Date: 14/06/2023**

Project Name : Additional Developmental works to Vidyaranyapura Indoor Stadium New Ward No.14

Agency : Sri. Abbu Sambasiva Reddy, #1-B3, Sree Arcade Layout, 4th Block, D B Sandra, Vidyaranyapura, Bangalore-97

Customer's Reference : EE(Project)/Ynk Zone/WO/087/2022-23

Date of Receipt : 09-06-23

Customer ID : FF Chejja Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 14/06/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	FF Chejja Concrete	M25	07/06/2023	14/06/2023	150.50 X 150.75 X 150.68	22687	8.984	417.3	18.4	18.0
2	FF Chejja Concrete	M25	07/06/2023	14/06/2023	150.20 X 150.92 X 150.32	22670	8.921	406.9	17.9	
3	FF Chejja Concrete	M25	07/06/2023	14/06/2023	150.15 X 150.29 X 150.24	22566	8.331	398.5	17.7	

* The results obtained are satisfactory as per standard requirements.

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Lab ID : CP-2023-12-20-10

Date: 05/07/2023

Project Name : Additional Developmental works to Vidyaranyapura Indoor Stadium New Ward No.14

Agency : Sri. Abbu Sambasiva Reddy, #1-B3, Sree Arcade Layout, 4th Block, D B Sandra, Vidyaranyapura, Bangalore-97

Customer's Reference : EE(Project)/Ynk Zone/WO/087/2022-23

Date of Receipt : 09-06-23

Customer ID : FF Chejja Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 05/07/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	FF Chejja Concrete	M25	07/06/2023	05/07/2023	150.24 X 150.81 X 150.27	22658	8.780	639.6	28.2	28.4
2	FF Chejja Concrete	M25	07/06/2023	05/07/2023	150.60 X 150.03 X 150.36	22594	8.154	636.7	28.2	
3	FF Chejja Concrete	M25	07/06/2023	05/07/2023	150.52 X 150.92 X 150.65	22716	8.740	655.7	28.9	

* The results obtained are satisfactory as per standard requirements.

Asst. Executive Engineer
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Yelahanka Zone
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 26/04/2023

Lab ID : CP-2023-12-20-10

Project Name : Additional Developmental works to Vidyaranyapura Indoor Stadium New Ward No.14

Agency : Sri. Abbu Sambasiva Reddy, #1-B3, Sree Arcade Layout, 4th Block, D B Sandra, Vidyaranyapura, Bangalore-97

Customer's Reference : EE(Project)/Ynk Zone/WO/087/2022-23

Date of Receipt : 21-04-23

Customer ID : Sump Coping Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 26/04/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Sump Coping Concrete	M20	19/04/2023	26/04/2023	150.79 X 150.72 X 150.43	22728	8.825	322.0	14.2	14.3
2	Sump Coping Concrete	M20	19/04/2023	26/04/2023	150.96 X 150.48 X 150.83	22716	8.807	332.1	14.6	
3	Sump Coping Concrete	M20	19/04/2023	26/04/2023	150.07 X 150.88 X 150.87	22642	8.268	320.8	14.2	

* The results obtained are satisfactory as per standard requirements.

Asst. Executive Engineer
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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 17/05/2023

Lab ID : CP-2023-12-20-10

Project Name : Additional Developmental works to Vidyaranyapura Indoor Stadium New Ward No.14

Agency : Sri. Abbu Sambasiva Reddy, #1-B3, Sree Arcade Layout, 4th Block, D B Sandra, Vidyaranyapura, Bangalore-97

Customer's Reference : EE(Project)/Ynk Zone/WO/087/2022-23

Date of Receipt : 21-04-23

Customer ID : Sump Coping Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/05/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Sump Coping Concrete	M20	19/04/2023	17/05/2023	150.34 X 150.03 X 150.27	22555	8.311	519.4	23.0	23.5
2	Sump Coping Concrete	M20	19/04/2023	17/05/2023	150.64 X 150.19 X 150.19	22623	8.738	532.1	23.5	
3	Sump Coping Concrete	M20	19/04/2023	17/05/2023	150.90 X 150.11 X 150.27	22652	8.946	541.0	23.9	

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 26/04/2023

Lab ID : **CP-2023-12-20-10**

Project Name : Additional Developmental works to Vidyaranyapura Indoor Stadium New Ward No.14

Agency : Sri. Abbu Sambasiva Reddy, #1-B3, Sree Arcade Layout, 4th Block, D B Sandra, Vidyaranyapura, Bangalore-97

Customer's Reference : EE(Project)/Ynk Zone/WO/087/2022-23

Date of Receipt : 21-04-23

Customer ID : Sump Coping Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 26/04/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Sump Coping Concrete	M20	19/04/2023	26/04/2023	150.05 X 150.46 X 150.66	22577	8.787	330.5	14.6	14.5
2	Sump Coping Concrete	M20	19/04/2023	26/04/2023	150.43 X 150.84 X 150.90	22691	8.677	333.0	14.7	
3	Sump Coping Concrete	M20	19/04/2023	26/04/2023	150.12 X 150.53 X 150.44	22597	8.137	322.2	14.3	

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2023-12-20-10 **Date: 17/05/2023**

Project Name : Additional Developmental works to Vidyaranyapura Indoor Stadium New Ward No.14

Agency : Sri. Abbu Sambasiva Reddy, #1-B3, Sree Arcade Layout, 4th Block, D B Sandra, Vidyaranyapura, Bangalore-97

Customer's Reference : EE(Project)/Ynk Zone/WO/087/2022-23

Date of Receipt : 21-04-23

Customer ID : Sump Coping Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/05/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Sump Coping Concrete	M20	19/04/2023	17/05/2023	150.57 X 150.57 X 150.59	22671	8.255	541.8	23.9	23.5
2	Sump Coping Concrete	M20	19/04/2023	17/05/2023	150.47 X 150.34 X 150.14	22621	8.433	534.6	23.6	
3	Sump Coping Concrete	M20	19/04/2023	17/05/2023	150.89 X 150.95 X 150.69	22777	8.894	525.3	23.1	

* The results obtained are satisfactory as per standard requirements.

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BBMP, Bangalore - 92

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Format No: CP/TF/2017

TEST REPORT FOR SAND MASONRY MORTARS

Lab ID : CP-2023-12-20-10 **Date: 26-05-23**

Project Name : Additional Developmental works to Vidyaranyapura Indoor Stadium New Ward No.14

Agency : Sri. Abbu Sambasiva Reddy, #1-B3, Sree Arcade Layout, 4th Block, D B Sandra, Vidyaranyapura, Bangalore-97

Customer's Reference : EE(Project)/Ynk Zone/WO/087/2022-23

Date of Receipt : 23-05-23

Sample Type : Fine Aggregate, M.Sand for Mortar

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2116-1980 (RA-2007) (Specification for Sand for Masonry Mortars)
IS: 2386 :1963(Part - 1, 3) RA2021
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 23-05-23

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS: 2116-1980 (RA-2007)
1	4.75 mm	0	0	0	100	100
2	2.36 mm	85	85	8.5	91.5	90-100
3	1.18 mm	200	285	28.5	71.5	70-100
4	600 micron	146	431	43.1	56.9	40-100
5	300 micron	116.5	547.5	54.8	45.3	5-70
6	150 micron	412.5	960	96.0	4.0	0-15
7	Pan	40	1000	100.0	0.0	0

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TEST REPORT FOR SAND MASONRY MORTARS

Lab ID : **CP-2023-12-20-10** **Date: 26-05-23**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	3.18	–
2	Specific Gravity	2.51	–
3	Material finer than 75 micron(%)	12.2	Crushed Fine aggregate Max 15%
4	Compacted Bulk Density (Kg/litre)	1.90	–
5	Loose Bulk Density (Kg/litre)	1.73	–

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT FOR PLASTER SAND

Lab ID : CP-2023-12-20-10 **Date: 27-05-23**

Project Name : Additional Developmental works to Vidyaranyapura Indoor Stadium New Ward No.14

Agency : Sri. Abbu Sambasiva Reddy, #1-B3, Sree Arcade Layout, 4th Block, D B Sandra, Vidyaranyapura, Bangalore-97

Customer's Reference : EE(Project)/Ynk Zone/WO/087/2022-23

Date of Receipt : 23-05-23

Sample Type : Plaster Sand

Reference to BIS codes : IS: 383 : 2016 (Specification for Coarse and fine Aggregates)
IS1542:1992 (RA 2019) (Sand for Plaster - Specification)
IS: 2386 :1963(Part - 1, 3) RA2021
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 23-05-23

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 1542:1992
1	10 mm	0	0	0	100	100
2	4.75 mm	35	35	3.5	96.5	95-100
3	2.36 mm	15	50	5	95	95-100
4	1.18 mm	50	100	10	90	90-100
5	600 micron	100	200	20	80	80-100
6	300 micron	215	415	41.5	58.5	20-65
7	150 micron	500	915	91.5	8.5	0-15
8	Pan	85	1000	100	0	---

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2023-12-20-10** **Date: 27-05-23**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.8	–
2	Specific Gravity	2.56	–
3	Material finer than 75 micron(%)	8.5	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

* The results obtained are satisfactory as per standard requirements.

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CEMENT CONCRETE PRECAST CONCRETE BLOCKS FOR PAVING

Lab ID : **CP-2023-12-20-10** **Date: 27-06-23**

Project Name : Additional Developmental works to Vidyaranyapura Indoor Stadium New Ward No.14

Agency : Sri. Abbu Sambasiva Reddy, #1-B3, Sree Arcade Layout, 4th Block, D B Sandra, Vidyaranyapura, Bangalore-97

Customer Reference : EE(Project)/Ynk Zone/WO/087/2022-23

Date of Receipt : 22-06-23

Sample Type/ Size : Precast concrete blocks for paving

Reference to BIS codes : IS 15658:2021

Date of test : 22-06-23

1.Compressive Strength

Sl.No.	Dimension (mm)			Compressive Strength	Average
	L	B	T	(N/mm^2)	(N/mm^2)
1	197.22	159.88	60.99	32.5	33.1
2	198.48	159.64	60.25	33.8	
3	199.54	159.54	60.48	32.5	
4	197.68	159.22	60.55	33.5	
5	198.11	159.87	60.32	32.8	
6	198.18	160.02	60.11	33.4	
7	198.45	158.99	60.98	33.2	
8	197.22	159.22	60.12	32.8	

2. Water Absorption

Sl.No.	Wet Weight	Dry weight	Thickness	Water Absorption (%)	Average (%)
1	4.987	4.828	60.85	3.29	3.64
2	4.898	4.721	60.22	3.75	
3	4.988	4.802	60.44	3.87	

* The results obtained are satisfactory as per standard requirements.

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BBMP, Bangalore - 92

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TEST RESULTS FOR CHAIN LINK FENCING

Date: 24-06-23

Lab ID	:	**CP-2023-12-20-10**
Project Name	:	Additional Developmental works to Vidyaranyapura Indoor Stadium New Ward No.14
Agency	:	Sri. Abbu Sambasiva Reddy, #1-B3, Sree Arcade Layout, 4th Block, D B Sandra, Vidyaranyapura, Bangalore-97
Customer's Reference	:	EE(Project)/Ynk Zone/WO/087/2022-23
Date of Receipt	:	22-06-23
Type of Sample	:	Chain Link Fencing
Reference to BIS codes	:	IS 2062:2011 (RA 2021)
Date of testing	:	22-06-23

TESTS RESULT FOR WIRE MESH		
SL.NO	**Description**	**Result**
1	**Average Thickness in mm**	4.04
2	**Dia of linewire in mm**	3.14
3	**Mesh size in mm**	50.01
4	**Nominaldia of meshwire in mm**	2.52
5	**Bend Test**	Satisfactory

* The results obtained are satisfactory as per standard requirements.

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Format No: CP/TF/01

TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Date: 27-05-23

Lab ID	:	CP-2023-12-20-10
Project Name	:	Additional Developmental works to Vidyaranyapura Indoor Stadium New Ward No.14
Agency	:	Sri. Abbu Sambasiva Reddy, #1-B3, Sree Arcade Layout, 4th Block, D B Sandra, Vidyaranyapura, Bangalore-97
Customer's Reference	:	EE(Project)/Ynk Zone/WO/087/2022-23
Date of Receipt	:	23-05-23
Sample Type/Size	:	Solid concrete blocks size (400X200X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2020) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	23-05-23

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	400	203	203	16484	33.018	2003.1	2030.9	Not less than 1800Kg/m^3
2	401	199	201	16040	33.613	2095.6		
3	401	201	198	15959	31.820	1993.9		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	33.91	32.25	4.89	4.25	Shall not be more than 10% by mass
2	33.57	32.14	4.28		
3	33.44	32.24	3.59		

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Lab ID : **CP-2023-12-20-10** **Date: 27-05-23**

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	402	199	201	
2	401	203	201	
3	403	203	200	
4	403	200	201	
5	399	201	201	
6	400	203	201	
7	401	200	202	
8	400	200	199	
9	403	202	199	
10	399	199	199	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
11	401	201	200	
12	400	201	199	
13	402	203	200	
14	403	200	203	
15	402	201	200	
16	403	199	199	
17	402	200	199	
18	400	200	200	
19	402	203	200	
20	404	202	201	
Average of 20	**401**	**201**	**200**	

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Lab ID : **CP-2023-12-20-10** **Date: 27-05-23**

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	400	199	79612	349.8	4.4	4.4
2	401	203	81339	353.9	4.4	
3	403	203	81711	345.1	4.2	
4	403	200	80637	352.3	4.3	
5	399	201	80233	346.4	4.3	
6	400	203	81053	365.2	4.5	
7	401	200	80097	346.5	4.3	
8	400	200	80026	360.6	4.4	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	Minimum average	Minimum Individual units.
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

* The Results Obtained are Satisfactory as per Standard Requirements

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Quality Manager

Asst. Executive Engineer
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TEST RESULTES ON STRUCTURAL STEEL

Lab ID : **CP-2023-12-20-10** **Date: 23-06-23**

Project Name : Additional Developmental works to Vidyaranyapura Indoor Stadium New Ward No.14

Agency : Sri. Abbu Sambasiva Reddy, #1-B3, Sree Arcade Layout, 4th Block, D B Sandra, Vidyaranyapura, Bangalore-97

Customer's Reference : EE(Project)/Ynk Zone/WO/087/2022-23

Date of Receipt : 22-06-23

Type/ Description of Sample* : SHS - 150X150X8mm

Reference to BIS codes : IS 2062: 2011 (RA 2021), IS:1608-2005(RA 2017), IS 1599-2019.

Date of testing : 22-06-23

SL.NO	Description	Result	Required as per as IS Code 2062: 2011	Remarks
1	Weight/Meter	34.38 Kg /m	–	
2	Thickness	8 mm	–	
3	Yeild Stress	275 N/mm^2	240 N/mm^2	
4	Tensile Strength	441 N/mm^2	410 N/mm^2	
5	Elongation Percentage	17%	Min 15%	
6	Bend Test	Satisfactory	–	

* The results obtained are satisfactory as per standard requirements.

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Quality Manager

Asst. Executive Engineer
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Yelahanka Zone
BBMP, Bangalore - 92

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TEST RESULTES ON STRUCTURAL STEEL

Date: 23-06-23

Lab ID	:	**CP-2023-12-20-10**
Project Name	:	Additional Developmental works to Vidyaranyapura Indoor Stadium New Ward No.14
Agency	:	Sri. Abbu Sambasiva Reddy, #1-B3, Sree Arcade Layout, 4th Block, D B Sandra, Vidyaranyapura, Bangalore-97
Customer's Reference	:	EE(Project)/Ynk Zone/WO/087/2022-23
Date of Receipt	:	22-06-23
Type/ Description of Sample*	:	RHS - 240X120X4mm
Reference to BIS codes	:	IS 2062: 2011 (RA 2021), IS:1608-2005(RA 2017), IS 1599-2019.
Date of testing	:	22-06-23

SL.NO	Description	Result	Required as per as IS Code 2062: 2011	Remarks
1	Weight/Meter	21.78 Kg /m	–	
2	Thickness	4 mm	–	
3	Yeild Stress	280 N/mm^2	240 N/mm^2	
4	Tensile Strength	451 N/mm^2	410 N/mm^2	
5	Elongation Percentage	18%	Min 15%	
6	Bend Test	Satisfactory	–	

* The results obtained are satisfactory as per standard requirements.

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TEST RESULTES ON STRUCTURAL STEEL

Lab ID : CP-2023-12-20-10 **Date: 23-06-23**

Project Name : Additional Developmental works to Vidyaranyapura Indoor Stadium New Ward No.14

Agency : Sri. Abbu Sambasiva Reddy, #1-B3, Sree Arcade Layout, 4th Block, D B Samdra, Vidyaranyapura, Bangalore-97

Customer's Reference : EE(Project)/Ynk Zone/WO:087/2022-23

Date of Receipt : 22-06-23

Type/ Description of Sample* : Purlin SHS - 132X132X6mm

Reference to BIS codes : IS 2062: 2011 (RA 2021), IS:1608-2005(RA 2017), IS 1599-2019.

Date of testing : 22-06-23

SL.NO	Description	Result	Required as per as IS Code 2062: 2011	Remarks
1	Weight/Meter	23.01 Kg /m	–	
2	Thickness	6 mm	–	
3	Yeild Stress	297 N/mm^2	240 N/mm^2	
4	Tensile Strength	463 N/mm^2	410 N/mm^2	
5	Elongation Percentage	19%	Min 15%	
6	Bend Test	Satisfactory	–	

* The results obtained are satisfactory as per standard requirements.

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TEST RESULTES ON STRUCTURAL STEEL

Date: 23-06-23

Lab ID	:	**CP-2023-12-20-10**
Project Name	:	Additional Developmental works to Vidyaranyapura Indoor Stadium New Ward No.14
Agency	:	Sri. Abbu Sambasiva Reddy, #1-B3, Sree Arcade Layout, 4th Block, D B Sandra, Vidyaranyapura, Bangalore-97
Customer's Reference	:	EE(Project)/Ynk Zone/WO/087/2022-23
Date of Receipt	:	22-06-23
Type/ Description of Sample*	:	RHS - 300X200X8mm
Reference to BIS codes	:	IS 2062: 2011 (RA 2021), IS:1608-2005(RA 2017), IS 1599-2019.
Date of testing	:	22-06-23

SL.NO	Description	Result	Required as per as IS Code 2062: 2011	Remarks
1	Weight/Meter	59.50 Kg /m	–	
2	Thickness	8 mm	–	
3	Yeild Stress	283 N/mm^2	240 N/mm^2	
4	Tensile Strength	458 N/mm^2	410 N/mm^2	
5	Elongation Percentage	18%	Min 15%	
6	Bend Test	Satisfactory	–	

* The results obtained are satisfactory as per standard requirements.

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Quality Manager

Assistant Executive Engineer
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Bangalore - 92

****End of Report****

TEST RESULTES ON STRUCTURAL STEEL

Lab ID : **CP-2023-12-20-10** **Date: 23-06-23**

Project Name : Additional Developmental works to Vidyaranyapura Indoor Stadium New Ward No.14

Agency : Sri. Abbu Sambasiva Reddy, #1-B3, Sree Arcade Layout, 4th Block, D B Sandra, Vidyaranyapura, Bangalore-97

Customer's Reference : EE(Project)/Ynk Zone/WO/087/2022-23

Date of Receipt : 22-06-23

Type/ Description of Sample* : Purlin SHS - 150X150X6mm

Reference to BIS codes : IS 2062: 2011 (RA 2021), IS:1608-2005(RA 2017), IS 1599-2019.

Date of testing : 22-06-23

SL.NO	Description	Result	Required as per as IS Code 2062: 2011	Remarks
1	Weight/Meter	26.40 Kg /m	–	
2	Thickness	6 mm	–	
3	Yeild Stress	295 N/mm^2	240 N/mm^2	
4	Tensile Strength	461 N/mm^2	410 N/mm^2	
5	Elongation Percentage	19%	Min 15%	
6	Bend Test	Satisfactory	–	

* The results obtained are satisfactory as per standard requirements.

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TEST RESULTES ON STRUCTURAL STEEL

Lab ID : **CP-2023-12-20-10** **Date: 23-06-23**

Project Name : Additional Developmental works to Vidyaranyapura Indoor Stadium New Ward No.14

Agency : Sri. Abbu Sambasiva Reddy, #1-B3, Sree Arcade Layout, 4th Block, D B Sandra, Vidyaranyapura, Bangalore-97

Customer's Reference : EE(Project)/Ynk Zone/WO/087/2022-23

Date of Receipt : 22-06-23

Type/ Description of Sample* : Base plate - 230X230X16 mm

Reference to BIS codes : IS 2062: 2011 (RA 2021), IS:1608-2005(RA 2017), IS 1599-2019.

Date of testing : 22-06-23

SL.NO	Description	Result	Required as per as IS Code 2062: 2011	Remarks
1	Thickness	16 mm	–	
2	Yeild Stress	295 N/mm^2	240 N/mm^2	
3	Tensile Strength	465 N/mm^2	410 N/mm^2	
4	Elongation Percentage	19%	Min 15%	
5	Bend Test	Satisfactory	–	

* The results obtained are satisfactory as per standard requirements.

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TEST RESULTES ON STRUCTURAL STEEL

Lab ID : **CP-2023-12-20-10** **Date: 23-06-23**

Project Name : Additional Developmental works to Vidyaranyapura Indoor Stadium New Ward No.14

Agency : Sri. Abbu Sambasiva Reddy, #1-B3, Sree Arcade Layout, 4th Block, D B Sandra, Vidyaranyapura, Bangalore-97

Customer's Reference : EE(Project)/Ynk Zone/WO/087/2022-23

Date of Receipt : 22-06-23

Type/ Description of Sample* : Base plate - 150X150X16mm

Reference to BIS codes : IS 2062: 2011 (RA 2021), IS:1608-2005(RA 2017), IS 1599-2019.

Date of testing : 22-06-23

SL.NO	Description	Result	Required as per as IS Code 2062: 2011	Remarks
1	Thickness	16 mm	–	
2	Yeild Stress	286 N/mm^2	240 N/mm^2	
3	Tensile Strength	455 N/mm^2	410 N/mm^2	
4	Elongation Percentage	18%	Min 15%	
5	Bend Test	Satisfactory	–	

* The results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017
4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST RESULTES ON STRUCTURAL STEEL

Date: 23-06-23

Lab ID	:	**CP-2023-12-20-10**
Project Name	:	Additional Developmental works to Vidyaranyapura Indoor Stadium New Ward No.14
Agency	:	Sri. Abbu Sambasiva Reddy, #1-B3, Sree Arcade Layout, 4th Block, D B Sandra, Vidyaranyapura, Bangalore-97
Customer's Reference	:	EE(Project)/Ynk Zone/WO/087/2022-23
Date of Receipt	:	22-06-23
Type/ Description of Sample*	:	SHS - 72X72X4.8mm
Reference to BIS codes	:	IS 2062: 2011 (RA 2021), IS:1608-2005(RA 2017), IS 1599-2019.
Date of testing	:	22-06-23

SL.NO	Description	Result	Required as per as IS Code 2062: 2011	Remarks
1	Weight/Meter	9.66 Kg /m	–	
2	Thickness	4.8 mm	–	
3	Yeild Stress	271 N/mm^2	240 N/mm^2	
4	Tensile Strength	440 N/mm^2	410 N/mm^2	
5	Elongation Percentage	17%	Min 15%	
6	Bend Test	Satisfactory	–	

* The results obtained are satisfactory as per standard requirements.

Asst. Executive Engineer
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BBMP, Bangalore - 92

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST RESULTES ON STRUCTURAL STEEL

Lab ID : **CP-2023-12-20-10** **Date: 23-06-23**

Project Name : Additional Developmental works to Vidyaranyapura Indoor Stadium New Ward No.14

Agency : Sri. Abbu Sambasiva Reddy, #1-B3, Sree Arcade Layout, 4th Block, D B Sandra, Vidyaranyapura, Bangalore-97

Customer's Reference : EE(Project)/Ynk Zone/WO/087/2022-23

Date of Receipt : 22-06-23

Type/ Description of Sample* : RHS - 40X20X3mm

Reference to BIS codes : IS 2062: 2011 (RA 2021), IS:1608-2005(RA 2017), IS 1599-2019.

Date of testing : 22-06-23

SL.NO	Description	Result	Required as per as IS Code 2062: 2011	Remarks
1	Weight/Meter	2.54 Kg /m	–	
2	Thickness	3 mm	–	
3	Yeild Stress	283 N/mm^2	240 N/mm^2	
4	Tensile Strength	454 N/mm^2	410 N/mm^2	
5	Elongation Percentage	18%	Min 15%	
6	Bend Test	Satisfactory	–	

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TEST RESULTES ON STRUCTURAL STEEL

Lab ID : **CP-2023-12-20-10** **Date: 23-06-23**

Project Name : Additional Developmental works to Vidyaranyapura Indoor Stadium New Ward No.14

Agency : Sri. Abbu Sambasiva Reddy, #1-B3, Sree Arcade Layout, 4th Block, D B Sandra, Vidyaranyapura, Bangalore-97

Customer's Reference : EE(Project)/Ynk Zone/WO/087/2022-23

Date of Receipt : 22-06-23

Type/ Description of Sample* : SHS - 38X38X4mm

Reference to BIS codes : IS 2062: 2011 (RA 2021), IS:1608-2005(RA 2017), IS 1599-2019.

Date of testing : 22-06-23

SL.NO	Description	Result	Required as per as IS Code 2062: 2011	Remarks
1	Weight/Meter	3.95 Kg /m	–	
2	Thickness	4 mm	–	
3	Yeild Stress	278 N/mm^2	240 N/mm^2	
4	Tensile Strength	449 N/mm^2	410 N/mm^2	
5	Elongation Percentage	18%	Min 15%	
6	Bend Test	Satisfactory	–	

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TEST RESULTES ON STRUCTURAL STEEL

Lab ID : **CP-2023-12-20-10** **Date: 23-06-23**

Project Name : Additional Developmental works to Vidyaranyapura Indoor Stadium New Ward No.14

Agency : Sri. Abbu Sambasiva Reddy, #1-B3, Sree Arcade Layout, 4th Block, D B Sandra, Vidyaranyapura, Bangalore-97

Customer's Reference : EE(Project)/Ynk Zone/WO/087/2022-23

Date of Receipt : 22-06-23

Type/ Description of Sample* : ISA - 50X50X6mm

Reference to BIS codes : IS 2062: 2011 (RA 2021), IS:1608-2005(RA 2017), IS 1599-2019.

Date of testing : 22-06-23

SL.NO	Description	Result	Required as per as IS Code 2062: 2011	Remarks
1	Weight/Meter	4.50 Kg /m	–	
2	Thickness	6 mm	–	
3	Yeild Stress	288 N/mm^2	240 N/mm^2	
4	Tensile Strength	469 N/mm^2	410 N/mm^2	
5	Elongation Percentage	19%	Min 15%	
6	Bend Test	Satisfactory	–	

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TEST RESULTES ON STRUCTURAL STEEL

Lab ID : **CP-2023-12-20-10** **Date: 23-06-23**

Project Name : Additional Developmental works to Vidyaranyapura Indoor Stadium New Ward No.14

Agency : Sri. Abbu Sambasiva Reddy, #1-B3, Sree Arcade Layout, 4th Block, D B Sandra, Vidyaranyapura, Bangalore-97

Customer's Reference : EE(Project)/Ynk Zone/WO/087/2022-23

Date of Receipt : 22-06-23

Type/ Description of Sample* : ISA - 65X65X8mm

Reference to BIS codes : IS 2062: 2011 (RA 2021), IS:1608-2005(RA 2017), IS 1599-2019.

Date of testing : 22-06-23

SL.NO	Description	Result	Required as per as IS Code 2062: 2011	Remarks
1	Weight/Meter	7.70 Kg /m	–	
2	Thickness	8 mm	–	
3	Yeild Stress	294 N/mm^2	240 N/mm^2	
4	Tensile Strength	463 N/mm^2	410 N/mm^2	
5	Elongation Percentage	19%	Min 15%	
6	Bend Test	Satisfactory	–	

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TEST RESULTES ON STRUCTURAL STEEL

Date: 23-06-23

Lab ID	:	**CP-2023-12-20-10**
Project Name	:	Additional Developmental works to Vidyaranyapura Indoor Stadium New Ward No.14
Agency	:	Sri. Abbu Sambasiva Reddy, #1-B3, Sree Arcade Layout, 4th Block, D B Sandra, Vidyaranyapura, Bangalore-97
Customer's Reference	:	EE(Project)/Ynk Zone/WO/087/2022-23
Date of Receipt	:	22-06-23
Type/ Description of Sample*	:	ISA - 35X35X6mm
Reference to BIS codes	:	IS 2062: 2011 (RA 2021), IS:1608-2005(RA 2017), IS 1599-2019.
Date of testing	:	22-06-23

SL.NO	Description	Result	Required as per as IS Code 2062: 2011	Remarks
1	Weight/Meter	3.0 Kg /m	–	
2	Thickness	6 mm	–	
3	Yeild Stress	282 N/mm^2	240 N/mm^2	
4	Tensile Strength	453 N/mm^2	410 N/mm^2	
5	Elongation Percentage	18%	Min 15%	
6	Bend Test	Satisfactory	–	

* The results obtained are satisfactory as per standard requirements.

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Lab ID : **CP-2023-12-20-10** **Date: 23-06-23**

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Agency : Sri. Abbu Sambasiva Reddy, #1-B3, Sree Arcade Layout, 4th Block, D B Sandra, Vidyaranyapura, Bangalore-97

Customer's Reference : EE(Project)/Ynk Zone/WO/087/2022-23

Date of Receipt : 22-06-23

Type/ Description of Sample* : ISA - 30X30X5mm

Reference to BIS codes : IS 2062: 2011 (RA 2021), IS:1608-2005(RA 2017), IS 1599-2019.

Date of testing : 22-06-23

SL.NO	Description	Result	Required as per as IS Code 2062: 2011	Remarks
1	Weight/Meter	2.20 Kg /m	–	
2	Thickness	5 mm	–	
3	Yeild Stress	280 N/mm^2	240 N/mm^2	
4	Tensile Strength	450 N/mm^2	410 N/mm^2	
5	Elongation Percentage	18%	Min 15%	
6	Bend Test	Satisfactory	–	

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